EUROPEAN SYNCHROTRON RADIATION FACILITY
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A light for science ESRF

SHARING ESRF INSTRUMENTATION AND EXPERTISE

Muriel Mattenet on behalf of the ESRF.

"The ESRF Upgrade is a demonstration of the constant quest for the highest levels of performance and reliability."

STANDARD ESRF INSTRUMENTATION: characteristics in datasheet

A vacuum-compatible beam viewer with water-cooling option is one of a set of beam viewers developed at ESRF.

This furnace, going up to 1100°C, is one X-ray dedicated sample environment. Other devices include cryostats and high pressure cells.

Quadrupole ionisation chamber: part of a family of devices for intensity and position of X-rays at the sample position.

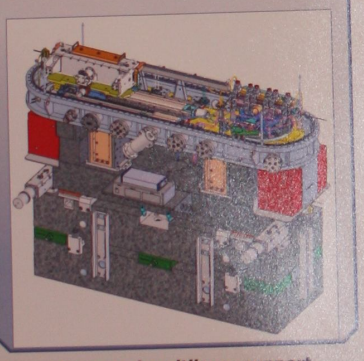
A fast readout, photon counting pixel detector system based on Medipix2/ Timepix readout chips.

"We actively collaborate with, and provide instrumentation developments to many light sources around the world, and have over 30 licence agreements with advanced instrument suppliers."

GENERIC DEVELOPMENTS

14 Mirrors/Multilayers based on a generic design solutions

Absorbed power up to 830W



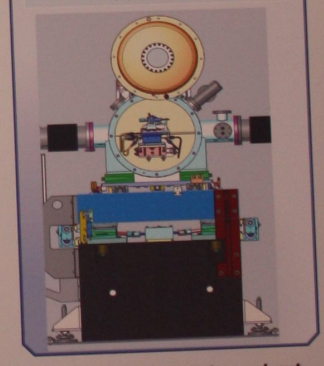
Mirror and multilayer support with Z heads and flexure

14 White and monochromatic beam transfocators installed

White beam and monochromatic beam transfocators

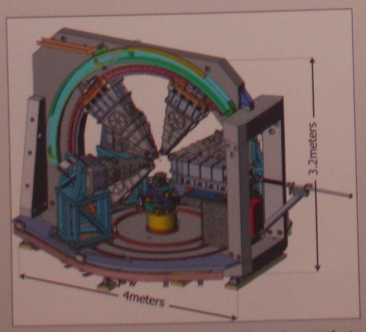
15 cryo-cooled channel-cut monochromators installed

From 5 to 70 keV

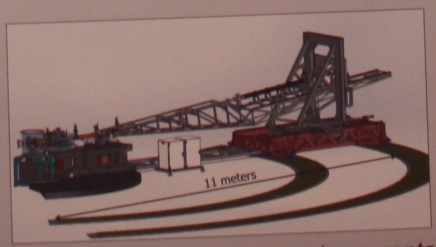


Cryogenic cooled channel-cut monochromator

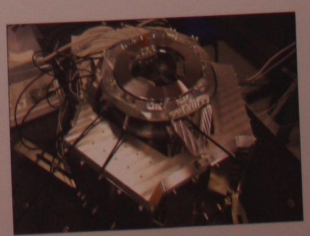
EXAMPLES OF CUTTING-EDGE DEVELOPMENTS



Examples of complex end-station integration and control



Example of ultra-precise sample stage positioning



For further details concerning these projects, please contact the ESRF speakers.